

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

Group Art: 1641

In re Application of:

Jules B. Puschett

Serial No.: 09/990,432

Filed: November 21, 2001

: METHOD OF DETERMINING VOLUME
: DEPENDENT HYPERTENSION THROUGH
: PROTEIN REDUCTION IN PHOSPHORYLATION
: OR CONCENTRATION AND RELATED APPARATUS

: Attorney Docket No.: 205204-00009

INFORMATION DISCLOSURE STATEMENT

Eckert Seamans Cherin & Mellott
600 Grant Street, 44th Floor
Pittsburgh, PA 15219
June 11, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:


Pursuant to the provisions of 37 CFR Sections 1.56, 1.97 and 1.98, Applicant submits herewith copies of the prior art documents cited on the attached Forms PTO/SB/08A and PTO/SB/08B for consideration during prosecution of the subject Application.

The cited art, preceded by an asterisk, is discussed at page 1, line 13 through page 3, line 14, and page 6, line 6 through page 9, line 23, and also page 13, line 22 through page 14, line 21.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

In addition to the art cited on Forms PTO/SB/08A and PTO/SB/08B, applicants and/or their attorneys may have been exposed to or considered additional art relating to the general class of the subject matter of the invention. However, if in fact such exposure or consideration has occurred to the best of their recall or judgment, none of such art is prior art which is more relevant than the art cited.

Respectfully submitted,


Arnold B. Silverman
Registration No. 22,614
Attorney for Applicant

(412) 566-2077

+

+



Complete if Known

Application Number	09/990,432
Filing Date	November 21, 2001
First Named Inventor	Jules B. Puschett
Group Art Unit	1641
Examiner Name	
Attorney Docket Number	205204-00009

RECEIVED

Sheet	1	of	1
-------	---	----	---

Attorney Docket Number 205204-00009

~~JUN 21~~ 2002

[illegible]

TECH CENTER

600/2900

[illegible]

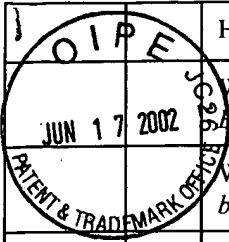
Examiner
Signature

Date	
Considered	

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

+

		HOOD et al., <i>Immunology</i> , Second Edition, (1984), pp. 52-58		
	*		WEINMAN et al., <i>Protein Kinase C. Activates the Renal Apical Membrane Na⁺/H⁺ Exchanger</i> , <i>J. Membrane Biol.</i> , (1986), pp. 133-139, Vol. 93	
	*		WEINMAN et al., <i>cAMP-associated inhibition of Na⁺-H⁺ exchanger in rabbit kidney brush-border membranes</i> , <i>Am. J. Physiol.</i> , (1987), pp. F19-F25, Vol. 252	
	*		CHEN et al., <i>Volume Expansion-Induced Changes in Renal Tubular Membrane Protein Phosphorylation</i> , <i>Biochemical and Biophysical Research Communications</i> , (February 27, 1987), pp. 74-80, Vol. 143, No. 1	
	*		LAMINSKI, et al., <i>Phosphorylation of Endogenous Protein in Primate Kidney. Effects of Cyclic AMP</i> , <i>Comp. Biochem. Physiol.</i> , (1992), pp. 267-273, Vol. 103B, No. 1, Great Britain	
	*		SCHENK et al., <i>The Pathogenesis of DOCA-Salt Hypertension</i> , <i>J. Pharmacol. Toxicol Methods</i> , (1992), pp. 161-170, Vol. 27, No. 3	
			NISHI et al, <i>Renal Na⁺, K⁺-ATPase in Dahl salt-sensitive rats: K⁺ dependence, effect of cell environment and protein kinases</i> , <i>Acta Physiol Scand.</i> , (1993), pp. 377-384, Vol. 149	
			GAIA et al., <i>Heat shock protein 72 in cardiac and skeletal muscles during hypertension</i> , <i>Molecular and Cellular Biochemistry</i> , (1995), pp. 1-7, Vol. 146, The Netherlands	
	*		CUSTER, et al., <i>Identification of a new gene product (diphor-1) regulated by dietary phosphate</i> , <i>Am. J. Physiol.</i> , (1997), pp. F801-F806, Vol. 273 (Renal Physiol. 42)	
	*		WHITE, et al., <i>A PDZ domain-containing protein with homology to Diphor-1 maps to human chromosome 1q21</i> , <i>Ann. Hum. Genet.</i> , (1998), pp. 287-290, Vol. 62, Great Britain	
*		IKEMOTO, et al. <i>Identification of a PDZ-domain-containing protein that interacts with the scavenger receptor class B type 1</i> , <i>Proceedings of the National Academy of Science</i> , (June 6, 2000), pp. 6538-6543, Vol. 97, No. 12		
Examiner Signature			Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

1641

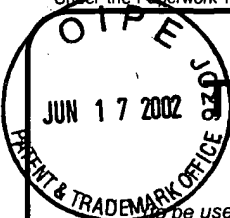
Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (08-00)

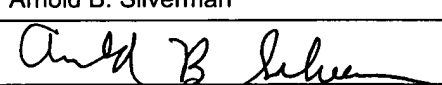
Approved for use through 10/31/2002. OMB 0651-0031

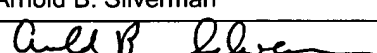
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

 TRANSMITTAL FORM <small>to be used for all correspondence after initial filing)</small>	Application Number	09/990,432
	Filing Date	November 21, 2001
	First Named Inventor	Jules B. Puschett
	Group Art Unit	1641
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	205204-00009

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/ Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	RETURN POSTCARD
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	PTO/SB/08A
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	PTO/SB/08B
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	28 REFERENCES
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Arnold B. Silverman
Signature	
Date	June 11, 2002

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: <u>June 11, 2002</u>			
Typed or printed name	Arnold B. Silverman		
Signature		Date	June 11, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/990,432
				Filing Date	November 21, 2001
				First Named Inventor	Jules B. Puschett
				Group Art Unit	1641
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	205204-00009
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
*		LAEMMLI; <i>Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4</i> , Nature (August 15, 1970), pp. 680-685, Vol. 227			
*		LABRIE, et al., <i>Adenohypophyseal Secretory Granules</i> , J. Biol. Chem., (1971), pp. 7311-7317, Vol. 246, No. 23, Issue Dec. 10, U.S.A.			
*		WELLER, et al., <i>Protein Kinase Activity in Membrane Preparations from Ox Brain</i> , J. Biochem, (1973), pp. 483-492, Vol. 132, Great Britain			
*		UEDA et al., <i>Regulation of Endogenous Phosphorylation of Specific Proteins in Synaptic Membrane Fractions from Rat Brain by Adenosine 3':5'-Monophosphate*</i> , J. Biol. Chem., (1973), pp. 8295-8305, Vol. 248, No. 23, Issue Dec. 10, U.S.A.			
*		CHANG, et al., <i>Cyclic Adenosine Monophosphate-dependent Phosphorylation of Specific Fat Cell Membrane Proteins by an Endogenous Membrane-bound Protein Kinase</i> , J. Biol Chem, (1974), pp. 6854-6865, Vol. 249, No. 21, Issue Nov. 10, U.S.A.			
*		PINKETT, et al., <i>Phosphorylation of Muscle Plasma Membrane Protein by a Membrane-Bound Protein Kinase</i> , Biochimica et Biophysica Acta, (1974), pp. 379-387, Vol. 372, The Netherlands			
*		BRADFORD, <i>A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding</i> , Anal. Biochem, (1976), pp. 248-254, Vol. 72			
*		PAMNANI et al., <i>Altered activity of the sodium-potassium pump in arteries of rats with steroid hypertension</i> , Clinical Science and Molecular Medicine, (1978), pp. 41s-43s, Vol. 55			
*		HUANG, et al. <i>Bilateral Renal Function Responses to Converting Enzyme Inhibitor (SQ 20, 881) in Two-Kidney, One Clip Goldblatt Hypertensive Rats</i> , Hypertension, (May-June 1981), pp. 285-293, Vol. 3, No. 3			
*		HAMMERMAN, et al., <i>Cyclic AMP-dependent Protein Phosphorylation in Canine Renal Brush-Border Membrane Vesicles Is Associated with Decreased Phosphate Transport*</i> , J. Biol. Chem., (1982), pp. 992-999, Vol. 257, No.2, Issue January 25, U.S.A.			
*		KEMPSON et al., <i>Inhibition of Renal Brush Border Phosphate Transport and Stimulation of Renal Gluconeogenesis by Cyclic AMP and Parathyroid Hormone</i> , Biochem., Pharmacol., (1983), pp. 1533-1537, Vol. 32, No. 9, Great Britain			